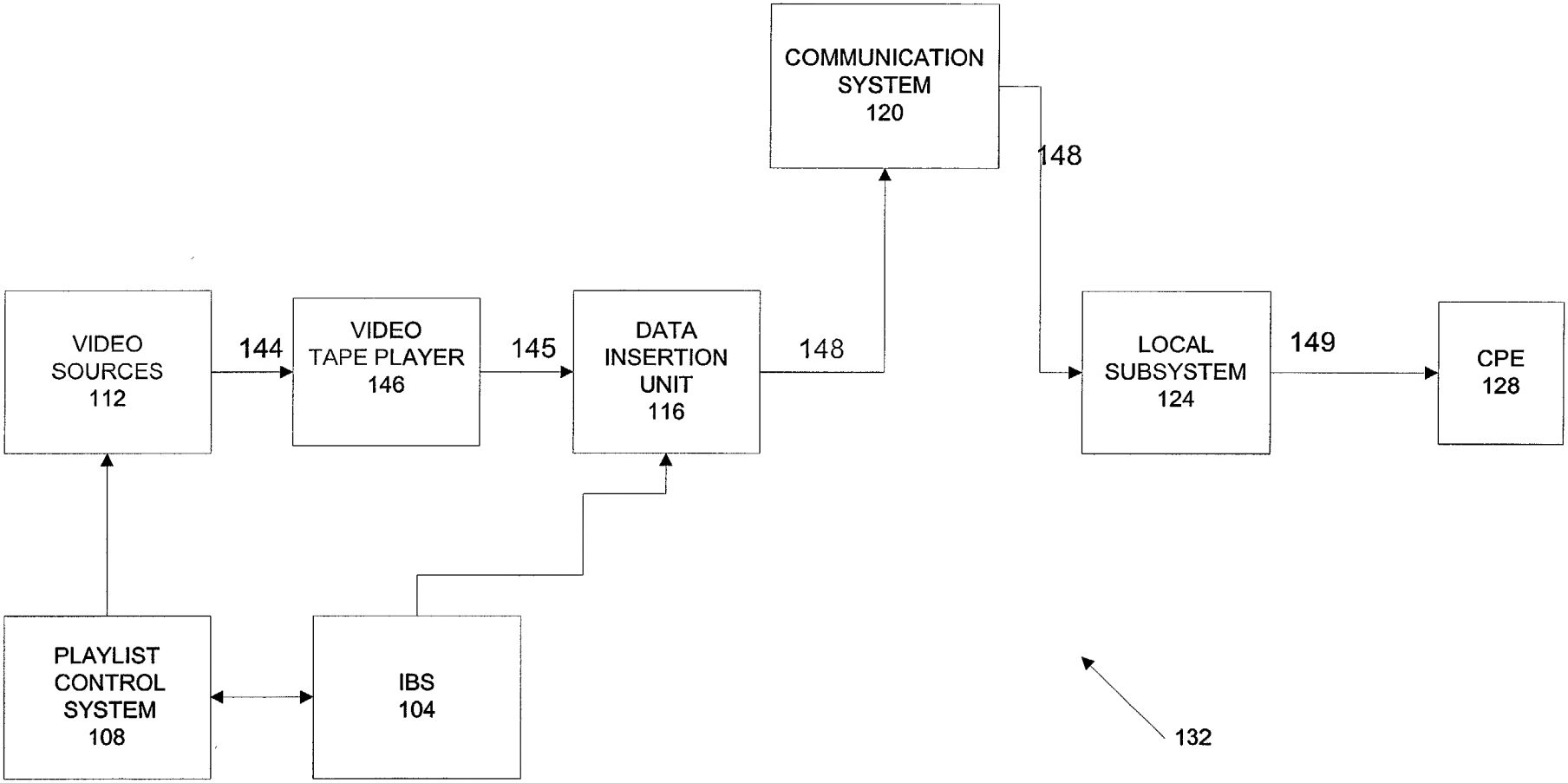

FIGURE 1 (PRIOR ART)

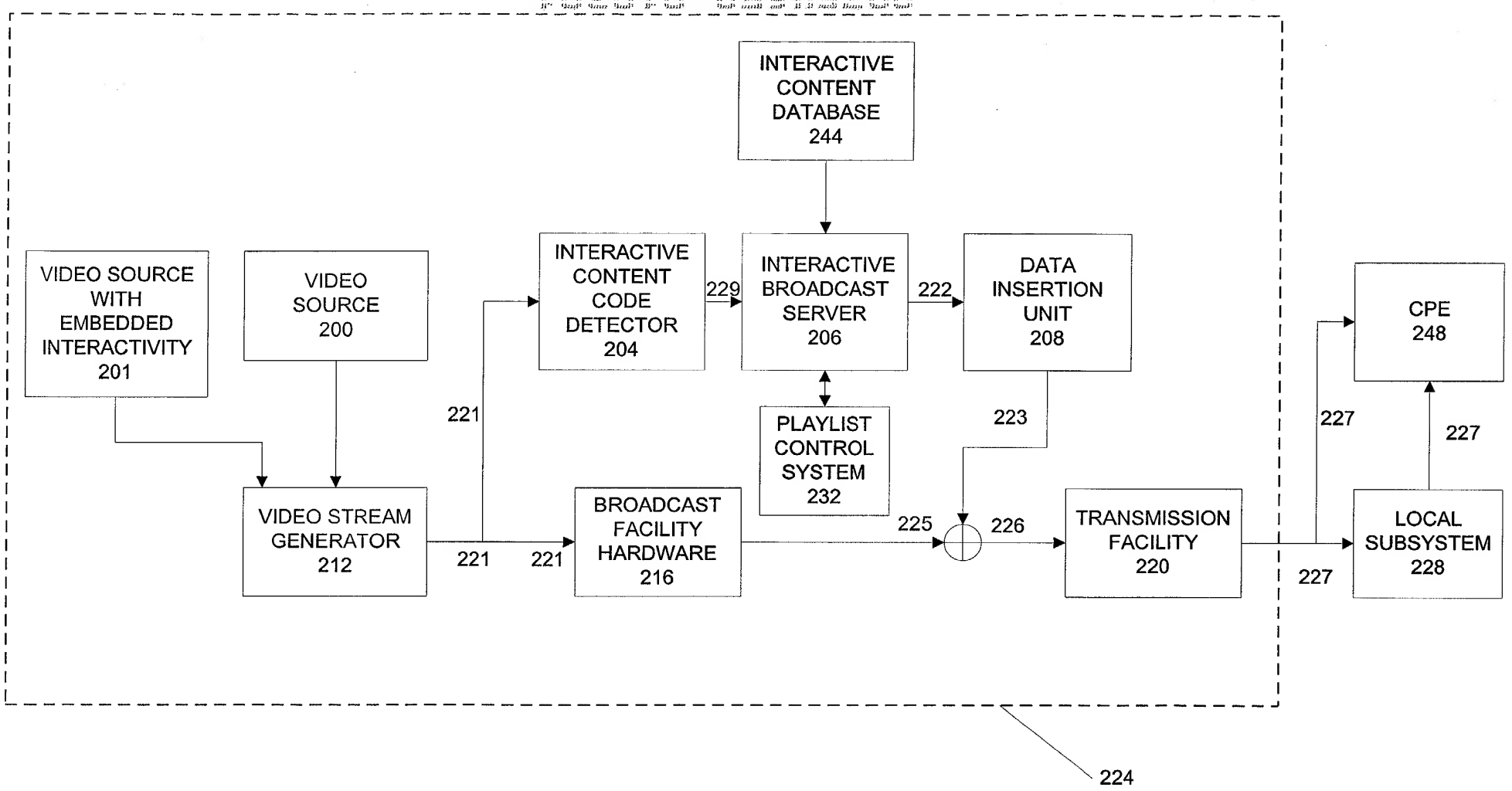
INTERACTIVE CONTENT DATABASE 244
VIDEO SOURCE WITH EMBEDDED INTERACTIVITY 201
VIDEO SOURCE 200
INTERACTIVE CONTENT CODE DETECTOR 204
229
INTERACTIVE BROADCAST SERVER 206
222
DATA INSERTION UNIT 208
CPE 248
221
PLAYLIST CONTROL SYSTEM 232
223
227
227
VIDEO STREAM GENERATOR 212
221
221
BROADCAST FACILITY HARDWARE 216
225
226
TRANSMISSION FACILITY 220
227
LOCAL SUBSYSTEM 228
224

FIGURE 2

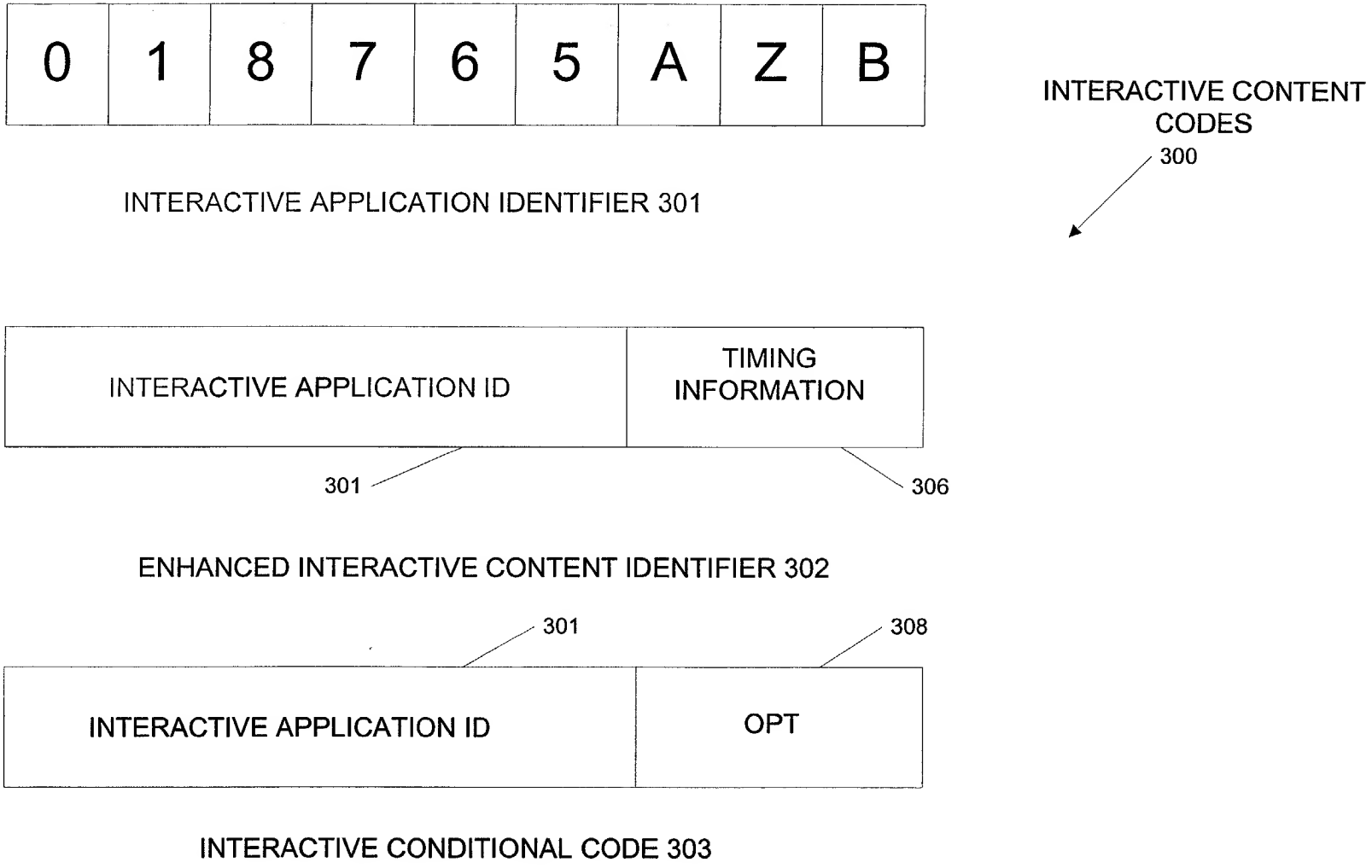
0 1 8 7 6 5 A Z B
INTERACTIVE APPLICATION IDENTIFIER 301
INTERACTIVE CONTENT CODES
300
INTERACTIVE APPLICATION ID
TIMING INFORMATION
301
306
ENHANCED INTERACTIVE CONTENT IDENTIFIER 302
301
308
INTERACTIVE APPLICATION ID
OPT
INTERACTIVE CONDITIONAL CODE 303

FIGURE 3

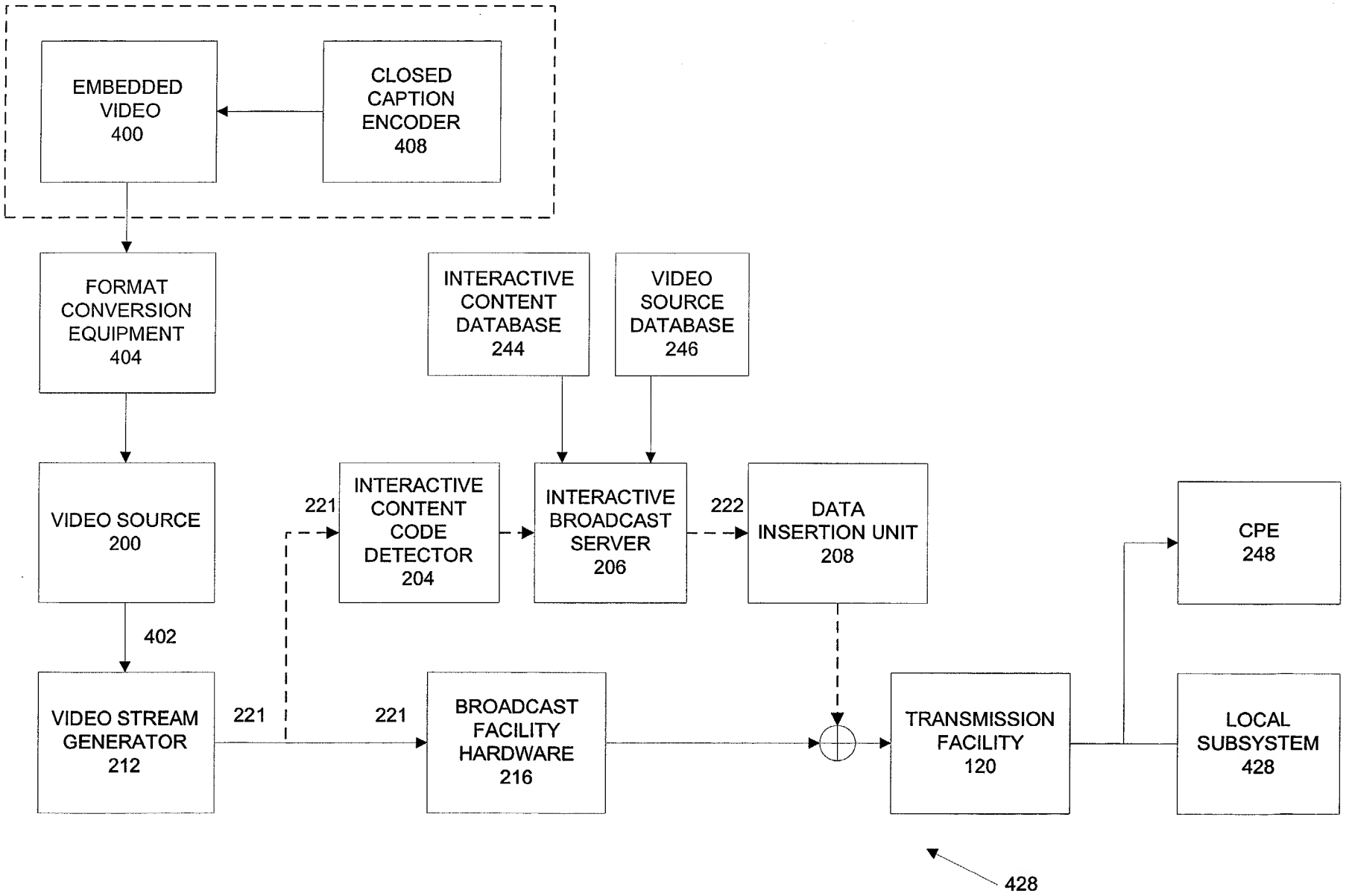
EMBEDDED VIDEO 400
CLOSED CAPTION ENCODER 408
FORMAT CONVERSION EQUIPMENT 404
INTERACTIVE CONTENT DATABASE 244
VIDEO SOURCE DATABASE 246
VIDEO SOURCE 200
402
VIDEO STREAM GENERATOR 212
221
INTERACTIVE CONTENT CODE DETECTOR 204
221
INTERACTIVE BROADCAST SERVER 206
222
DATA INSERTION UNIT 208
221
BROADCAST FACILITY HARDWARE 216
TRANSMISSION FACILITY 120
CPE 248
LOCAL SUBSYSTEM 428
428

FIGURE 4

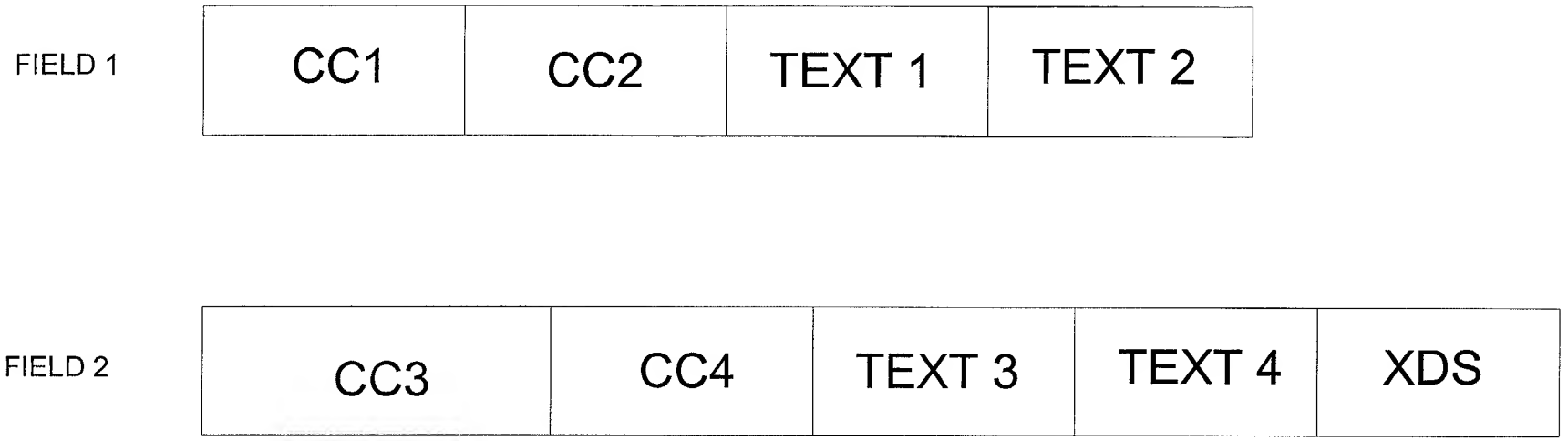
FIELD 1
CC1
CC2
TEXT 1
TEXT 2
FIELD 2
CC3
CC4
TEXT 3
TEXT 4
XDS
CLOSED CAPTION LINE

FIGURE 5

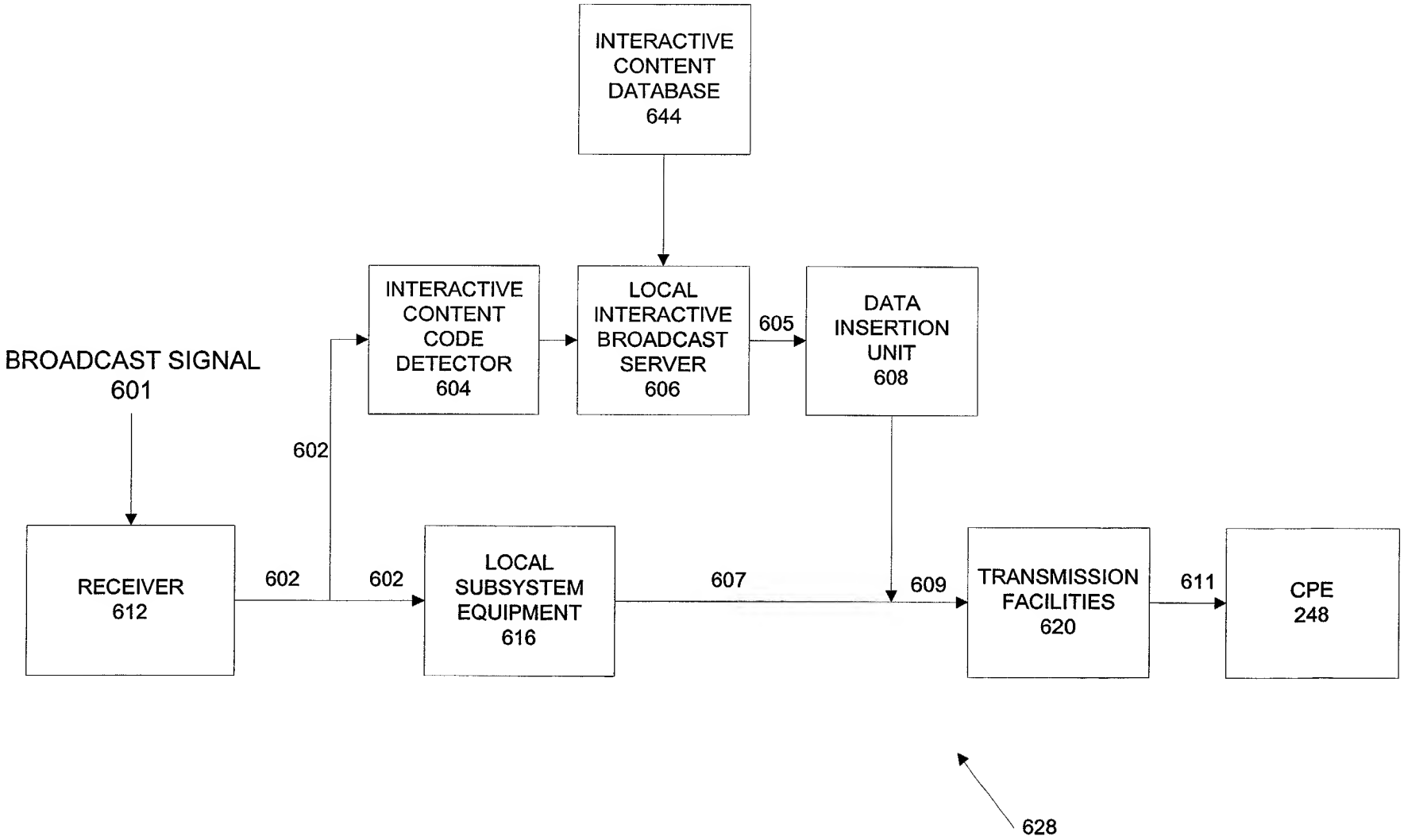
INTERACTIVE CONTENT DATABASE 644
INTERACTIVE CONTENT CODE DETECTOR 604
LOCAL INTERACTIVE BROADCAST SERVER 606
605
DATA INSERTION UNIT 608
BROADCAST SIGNAL 601
602
RECEIVER 612
602
602
LOCAL SUBSYSTEM EQUIPMENT 616
607
609
TRANSMISSION FACILITIES 620
611
CPE 248
628

FIGURE 6

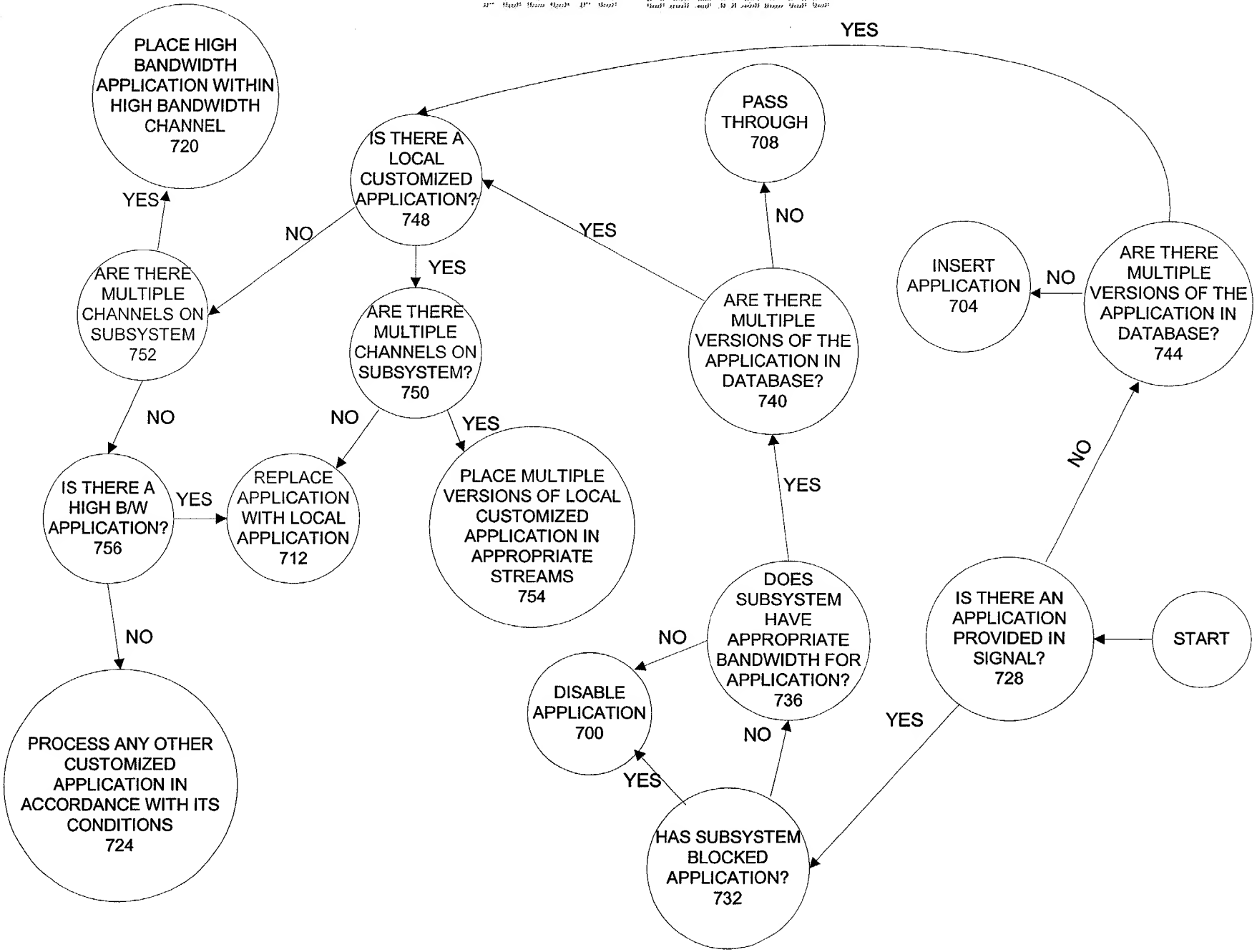
START
IS THERE AN APPLICATION PROVIDED IN SIGNAL? 728
ARE THERE MULTIPLE VERSIONS OF THE APPLICATION IN DATABASE? 744
INSERT APPLICATION 704
PASS THROUGH 708
ARE THERE MULTIPLE VERSIONS OF THE APPLICATION IN DATABASE? 740
IS THERE A LOCAL CUSTOMIZED APPLICATION? 748
ARE THERE MULTIPLE CHANNELS ON SUBSYSTEM? 750
ARE THERE MULTIPLE CHANNELS ON SUBSYSTEM 752
PLACE MULTIPLE VERSIONS OF LOCAL CUSTOMIZED APPLICATION IN APPROPRIATE STREAMS 754
PLACE HIGH BANDWIDTH APPLICATION WITHIN HIGH BANDWIDTH CHANNEL 720
IS THERE A HIGH B/W APPLICATION? 756
REPLACE APPLICATION WITH LOCAL APPLICATION 712
PROCESS ANY OTHER CUSTOMIZED APPLICATION IN ACCORDANCE WITH ITS CONDITIONS 724
DOES SUBSYSTEM HAVE APPROPRIATE BANDWIDTH FOR APPLICATION? 736
DISABLE APPLICATION 700
HAS SUBSYSTEM BLOCKED APPLICATION? 732
YES
NO

FIGURE 7

644, 646

LOCAL SUBSYSTEM DATA		
BLOCKED APPLICATIONS: ID173 ID199 ID84		
BANDWIDTH: 100MG or 100Mb		
MULTIPLE STREAMS: YES		
	COUNT FIELD	ID
ID222	2	ID0222A / LOCAL
ID211	1	
ID174	2	ID174A / DIGITAL

Figure 8

FIGURE 8